aiwa

COMPACT DISC STEREO RADIO CASSETTE RECORDER
RADIOCASETE ESTÉREO CON REPRODUCTOR DE DISCOS COMPACTOS
RADIO-CASSETTE LECTEUR DE CD STEREO

CSD-TD51
CSD-TD52
CSD-TD53

OPERATING INSTRUCTIONS See page 2. — En (English)

MANUAL DE INSTRUCCIONES Ver la página 8. — E (Español)

MODE D'EMPLOI Voir page 14. — F (Français)

8A-CH8-903-01
000105ACK-I-B

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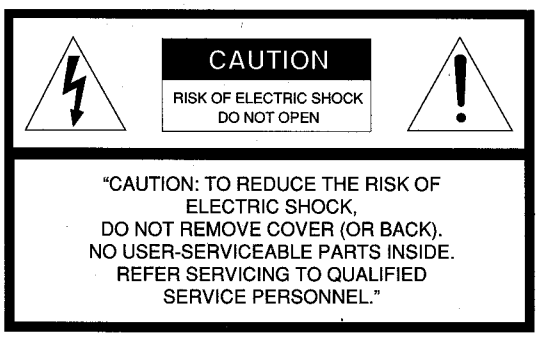
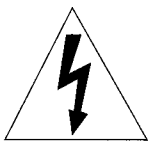
COMPACT disc DIGITAL AUDIO

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
"CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL."

Explanation of Graphical Symbols:



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

OWNER'S RECORD

For your convenience, record the model number (you will find it at the bottom of the unit) and serial number (you will find it in the battery compartment) in the space provided below. Please refer to them when you contact your AIWA dealer in case of difficulty.

Model No. _____ Serial No. _____

Precautions

Read the Operating Instructions carefully and completely before operating the unit. Be sure to keep the Operating Instructions for future reference. All warnings and cautions in the Operating Instructions and on the unit should be strictly followed, as well as the safety suggestions below.

Installation

1 **Water and moisture** - Do not use this unit near water, such as near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, swimming pool, or the like.
2 **Heat** - Do not use this unit near sources of heat, including heating vents, stoves, or other appliances that generate heat.
It also should not be placed in temperatures less than 5°C (41°F) or greater than 35°C (95°F).
3 **Mounting surface** - Place the unit on a flat, even surface.
4 **Ventilation** - The unit should be situated with adequate space around it so that proper heat ventilation is assured. Allow 10 cm (4 in.) clearance from the rear and the top of the unit and 5 cm (2 in.) from each side.
- Do not place the unit on a bed, rug, or similar surface that may block the ventilation openings.
- Do not install the unit in a bookcase, cabinet, or airtight rack where ventilation may be impeded.

5 **Objects and liquid entry** - Take care that objects or liquids do not get inside the unit through the ventilation openings.
6 **Carts and stands** - When placed or mounted on a stand or cart, the unit should be moved with care.
Quick stops, excessive force, and uneven surfaces may cause the unit or cart to overturn or fall.

7 **Condensation** - Moisture may form on the CD pickup lens when:
- The unit is moved from a cold spot to a warm spot
- The heating system has just been turned on
- The unit is used in a very humid room
- The unit is cooled by an air conditioner

When this unit has condensation inside, it may not function normally. Should this occur, leave the unit for a few hours, then try to operate again.
8 **Wall or ceiling mounting** - The unit should not be mounted on a wall or ceiling, unless specified in the Operating Instructions.

Electric Power

1 **Power sources** - Use on batteries or AC house current, as specified in the Operating Instructions and marked on the unit.
2 **Polarization** - As a safety feature, some units are equipped with polarized AC power plugs which can only be inserted one way into a power outlet. If it is difficult or impossible to insert the AC power plug into an outlet, turn the plug over and try again. If it still does not easily insert into the outlet, please call a qualified service technician to service or replace the outlet. To avoid defeating the safety feature of the polarized plug, do not force it into a power outlet.
3 **AC power cord**
- When disconnecting the AC power cord, pull it out by the AC power plug. Do not pull the cord itself.
- Never handle the AC power plug with wet hands, as this could result in fire or shock.
- Power cords should be firmly secured to avoid being bent, pinched, or walked upon. Pay particular attention to the cord from the unit to the power socket.
- Avoid overloading AC outlets and extension cords beyond their capacity, as this could result in fire or shock.

4 **Extension cord** - To help prevent electric shock, do not use a polarized AC power plug with an extension cord, receptacle, or other outlet unless the polarized plug can be completely inserted to prevent exposure of the blades of the plug.
5 **When not in use** - Unplug the AC power cord from the AC outlet or remove all the batteries if the unit will not be used for several months or more. When the cord is plugged in, a small amount of current continues to flow to the unit, even when the power is turned off.

Maintenance

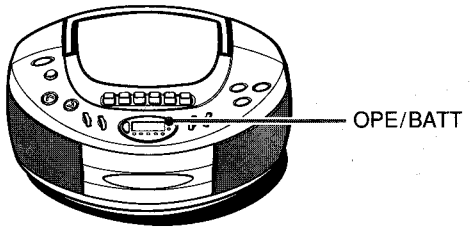
Clean the unit only as recommended in the Operating Instructions.

Damage Requiring Service

Have the units serviced by a qualified service technician if:
- The AC power cord or plug has been damaged
- Foreign objects or liquid have got inside the unit
- The unit has been exposed to rain or water
- The unit does not seem to operate normally
- The unit exhibits a marked change in performance
- The unit has been dropped, or the cabinet has been damaged

DO NOT ATTEMPT TO SERVICE THE UNIT YOURSELF.

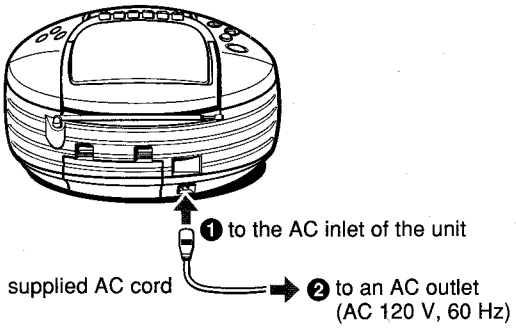
Power Supply



The OPE/BATT indicator lights up while the power is on.

Using on AC House Current

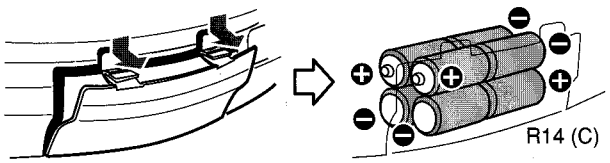
Connect the AC cord as illustrated below.



CAUTION
Use only the supplied AC cord. Use with other cords may result in the risk of fire.

Using on Batteries

Open the lid of the battery compartment on the rear and insert eight R14 (size C) batteries, not supplied, with the ⊕ and ⊖ marks correctly aligned. Then close the lid.
To switch from AC power supply to battery power supply, disconnect the AC cord from the AC inlet.



When to replace the batteries
The OPE/BATT indicator becomes dim, the tape speed slows down, volume decreases, or sound is distorted during operation.

Notes on batteries
- Do not mix different types of batteries or old batteries with new ones.
- When the unit is not to be used for a long period, remove the batteries to prevent needless battery wear.
- Never recharge the batteries, apply heat to them or take them apart.
- Remove dead batteries.

If liquid leaks from the batteries, wipe thoroughly to remove.

Specifications

Tuner section
Frequency range, antenna — FM: 87.5 - 108.0 MHz Rod antenna, AM: 530/531 - 1,710/1,602 kHz (10/9 kHz step) Ferrite bar antenna

Deck section
Track format — 4 tracks, 2 channels / Frequency range — Normal tape: 50 - 12,500 Hz (EIAJ) / Recording system — AC bias / Erasing system — Magnet erase / Heads — Recording/playback head (1), Erasure head (1)

CD player section
Disc — Compact disc / Scanning method — Non-contact optical scanner (semiconductor laser)

General
Speaker — 80 mm cone type (2) / Output — Headphones jack (stereo mini-jack) / Power output — 2.5 W + 2.5 W (EIAJ 7 ohms DC) / Power requirements — DC 12 V using eight size C (R14) batteries, AC 120 V, 60 Hz / Power consumption — 15 W
Dimensions (W × H × D) — 302 × 162 × 253 mm (12 × 6 1/2 × 10 in.)
Weight (excluding batteries) — 2.7 kg (5 lbs. 15 oz.)
Accessory — AC cord (1)

Specifications and external appearance are subject to change without notice.

COPYRIGHT
Please check the copyright laws relating to recordings from disc, radio or external tape for the country in which the machine is being used.

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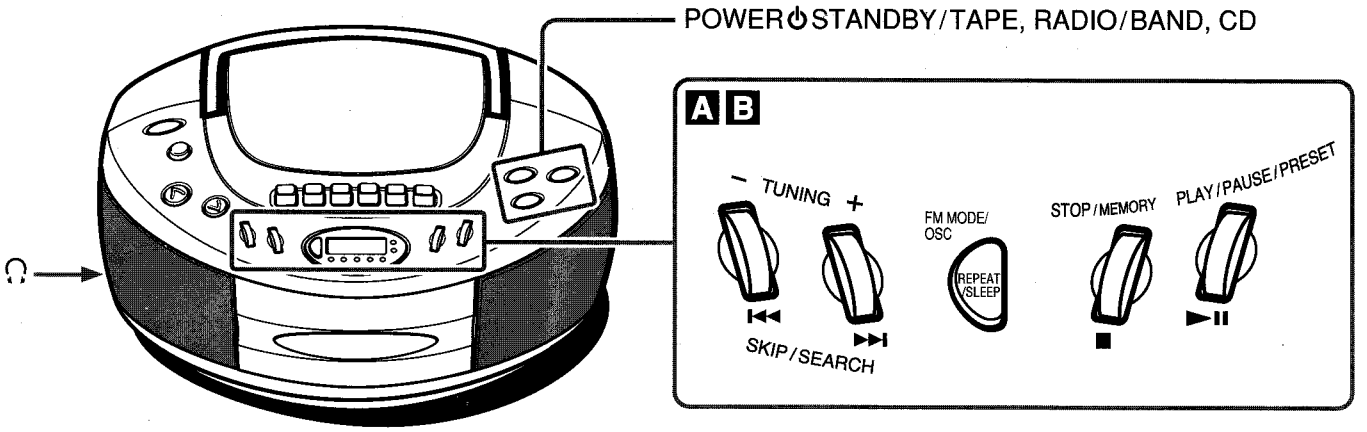


A TUNER OPERATION

1 Press RADIO/BAND repeatedly to select the desired band.

→ FM → AM →

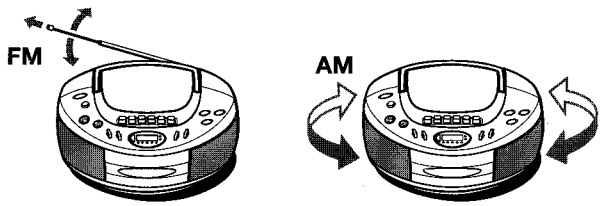
The power is turned on and the previously tuned station is received.
The RADIO indicator lights up.

2 Press ⏮, ⏭ (TUNING –, +) to select a station.

During FM stereo reception, [STEREO] is displayed.

After listening, press POWER ⏻ STANDBY to turn the power off.

For better reception



Extend the rod antenna and orient it for the best reception.

The antenna is inside the unit. Position the unit for the best reception.

For quick tuning

Keep ⏮, ⏭ pressed until the tuner starts searching for a station. When a station is tuned to, the search stops.
If the broadcast signal is weak, it does not stop. To stop the search manually, press ⏮ or ⏭.

FM MODE/OSC

- If an FM stereo broadcast contains noise, press the button so that [MONO] is displayed.
  Noise is reduced, although reception is monaural.
  To restore stereo reception, press the button again.
- If a high-pitched sound is heard during AM recording, press the button repeatedly until the noise is reduced. Its position can be checked by "•" being on or off the display.

To change the AM tuning interval

The default setting of the AM tuning interval is 10 kHz/step. If you use this unit in an area where the frequency allocation system is 9 kHz/step, change the interval as follows.

1 Press RADIO/BAND to display FM.
2 Press ■ while pressing RADIO/BAND to display the AM frequency.

When the AM tuning interval is changed, the preset stations are cleared.

NOTE

If the unit picks up noise from other electrical appliances nearby, like a TV or fluorescent lights, move the unit away.

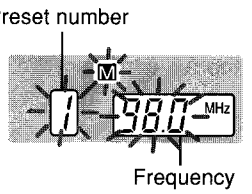
PRESETTING STATIONS

You can preset up to 15 stations in each band.

1 Select a station.

2 Press ■ STOP/MEMORY once so that "M" is displayed to store the station.

A station is assigned a preset number, beginning from 1 in consecutive order for each band.



3 Repeat steps 1 and 2.

The next station will not be stored if a total of 15 preset stations have already been stored for a band.

To listen to preset stations

Select a band then press ⏯ PLAY/PAUSE/PRESET repeatedly.

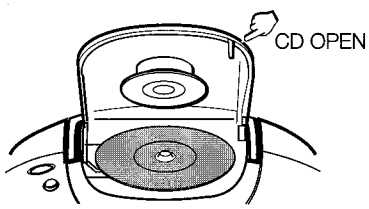
To clear a preset station

Select the preset number first. Within 4 seconds, keep ■ pressed until "M" and the preset number disappear in the display.
The higher numbers in the band are decreased by one.

B CD OPERATION

1 Press CD.
The power is turned on and the CD indicator lights up.

2 Press CD OPEN to open the disc compartment. Place a disc with the printed side up and close the disc compartment.



Total number of tracks and total playing time are displayed. It will take about 15 seconds when loading a CD-RW disc.

3 Press ►II PLAY/PAUSE/PRESET to start play.
The number of the track being played and elapsed playing time are displayed.

■ STOP/MEMORY – Stops play.
►II PLAY/PAUSE/PRESET – Pauses play. To resume play, press again.
I◄◄, ►►I SKIP/SEARCH – Searches for a particular point during playback. Keep I◄◄ or ►►I pressed and then release it.
– Skips to the beginning of a track. Press I◄◄ or ►►I repeatedly.
REPEAT/SLEEP – Repeats a single track or all tracks. Select as follows.
⊂ 1: A single track is played repeatedly. Select a track with I◄◄ or ►►I.
⊂ : All tracks are played repeatedly.

To start play when the power is off, press CD. The power is turned on and play of the loaded disc begins (Direct Play Function).
If you load a disc while the CD indicator flashes in step 2, play starts without pressing ►II.

After listening, press POWER ⏻ STANDBY to turn the power off.

NOTE
- The unit may not play a CD-R/RW disc that is recorded on personal computers or some kinds of CD-R/RW recorders because of differences in recording platforms.
- Do not attach any seal or label to either side (the recordable side or the labeled side) of a CD-R/RW disc. It may cause malfunction.
- Do not use irregular shape CDs (example: heart-shaped, octagonal ones).
  It may result in malfunctions.
- Do not place more than one disc in the disc compartment.
- Do not try to open the disc compartment during play.
- Do not touch the lens. Doing so may cause malfunctions.

PROGRAMMED PLAY

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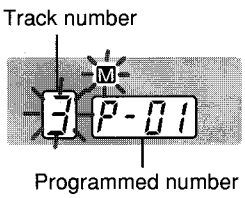
Up to 30 tracks can be programmed from the disc.

1 In stop mode, keep ■ STOP/MEMORY pressed until "M" flashes in the display.

2 Press I◄◄, ►►I to select a track, then press ■ STOP/MEMORY to store it.

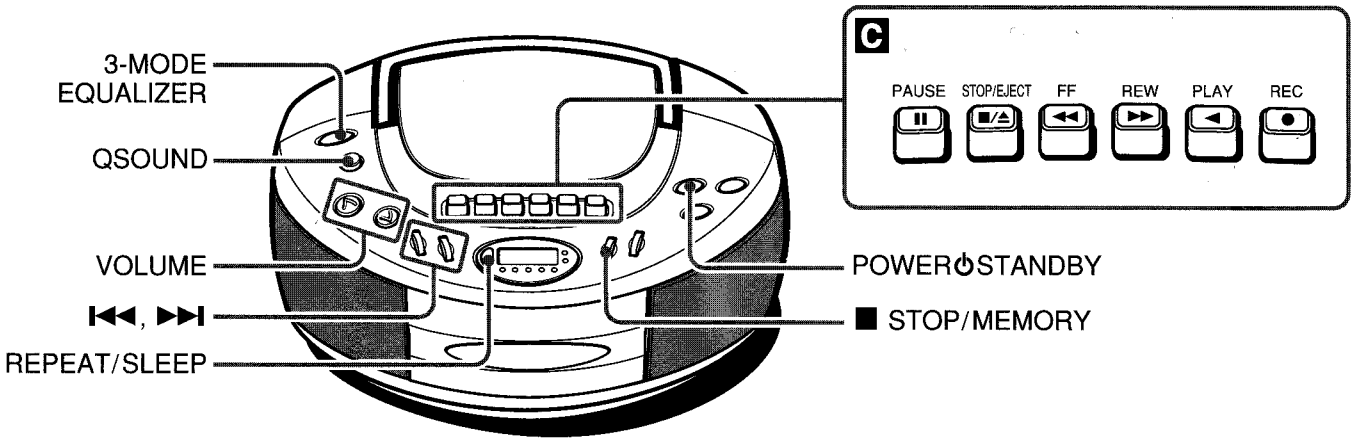


3 Repeat step 2 to program other tracks.
To return to stop mode in steps 1 to 3, keep ■ pressed.

4 Press ►II to start play.

To check the program, press I◄◄ or ►►I in stop mode.
To clear the program, press ■ once in stop mode so that "M" disappears in the display.
To change the programmed tracks, clear the program and repeat all the steps again.

To listen with the headphones
Connect headphones with a stereo mini plug to the ∩ jack.

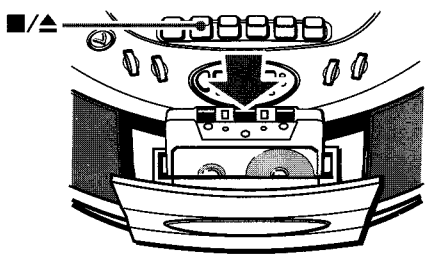


C TAPE OPERATION

Use Type I (normal) tapes only.

INSERTING A TAPE

Press ■/≜ STOP/EJECT to open the cassette holder and insert a tape with the exposed side up and the side to be played facing out.



Push the cassette holder to close.

PLAYING A TAPE

Press ◄ PLAY while the power is off.
The power is turned on and play of the inserted tape begins.
The volume level is displayed during tape operation.

■/≜ STOP/EJECT – Stops play. The power will be automatically turned off.
II PAUSE – Pauses play. To resume play, press again.
◄◄ FF/►► REW – Fast forwards/rewinds. To stop the winding, press **■/≜**.

RECORDING

Note that recording is done on only one side of the tape.

1 **Insert a tape with the side to be recorded facing out.**

2 **Get ready to record from the source.**
To record from a CD, press CD and load the disc.
To record from a radio broadcast, press RADIO/BAND and tune to a station.

3 **Press ● REC to start recording.**
◄ PLAY is pressed simultaneously.
When the selected function is CD, CD play and recording starts simultaneously.

To record only the selected tracks of a CD
1 Follow steps 1 to 3 of PROGRAMMED PLAY on page 5 to program tracks.
2 Press ● REC.

To stop recording, press **■/≜** STOP/EJECT.
When recording from a CD, play pauses. To stop CD play, press ■ STOP/MEMORY.
To pause recording, press **II** PAUSE. To resume recording, press again.
To erase recording, press ● REC while the power is off.
After recording, press POWER ⏻ STANDBY to turn the power off.

To prevent accidental erasure
Break off the plastic tabs on the cassette tape with a screwdriver or other pointed tool after recording.

To record on the tape again
Cover the tab openings with adhesive tape, etc.

GENERAL

SOUND ADJUSTMENT

VOLUME

Press VOLUME ∧ or ∨. The volume level is displayed as a number from 0 to MAX (25).

- The volume level is automatically set to 14 if the power is turned off when the volume level is set to 15 or more. (except when turning the power back on within 4 seconds)

To display the volume level when a function other than TAPE function is selected

Press VOLUME ∧ or ∨. The volume level is displayed for 4 seconds.

3-MODE EQUALIZER

Press 3-MODE EQUALIZER until one of the indicators lights up.

The equalizer mode changes to ROCK, POP, JAZZ or no equalization, cyclically.

ROCK - Emphasizes the high and low range of music.
POP - Emphasizes voice and midrange of music.
JAZZ - Emphasizes the low range of music.

QSOUND system

This system provides a rich, three dimensional sound area for stereo sources.

You can enjoy more enhanced sound.

Press QSOUND and the QSOUND indicator lights up.

- At higher volumes, turning QSOUND on may cause sound distortion. In this case, make the volume down.

If an erroneous display or malfunction occurs

Make sure that none of the deck operation buttons is pressed.

Press ■ while pressing POWER ⏻ STANDBY.

If the unit cannot be reset in the way above, disconnect the AC cord and remove all the batteries to turn off the display. Leave the unit for a while and turn the power back on.

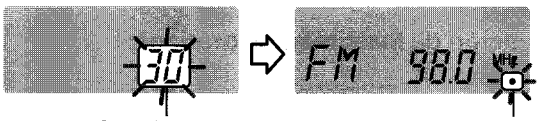
SETTING THE SLEEP TIMER

The unit can be turned off automatically at a specified time.

1 Keep REPEAT/SLEEP pressed until "10" flashes in the display.

2 Within 4 seconds, press ⏮ or ⏭ to specify the time until the power is turned off.

Each time it is pressed, the time changes between 10 and 90 minutes in 10-minute steps.



Specified time

While the sleep timer works, the dot keeps flashing.

To check the time remaining until the power is turned off

Repeat step 1 shown above. The remaining time is displayed for 4 seconds.

To cancel the sleep timer

Display the remaining time and press ⏮ or ⏭ repeatedly until OFF is displayed.

NOTE

If the unit is turned off during tape playback, ◀ on the deck will not be released. Press ■/⏏ to release ◀.

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Maintenance

To clean the cabinet

Use a soft cloth lightly moistened with mild detergent solution. Do not use strong solvents such as alcohol, benzine or thinner.

To clean the heads

When the tape heads are dirty;

- high frequency sound is not emitted
- the sound is not adequately high
- the sound is off-balance
- the tape cannot be erased
- the tape cannot be recorded on

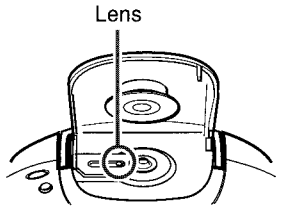
After every 10 hours of use, clean the tape heads with a head cleaning cassette.

Use separately sold dry-type or wet-type cleaning cassette.

Refer to the instructions of the cleaning cassette for details.

To clean the lens

Use a cotton swab slightly moistened with cleaning fluid. Wipe gently from the center to the edge.



NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

.... Reorient or relocate the receiving antenna.
.... Increase the separation between the equipment and receiver.
.... Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
.... Consult the dealer or an experienced radio/TV technician for help.

CAUTION

Modifications or adjustments to this product, which are not expressly approved by the manufacturer, may void the user's right or authority to operate this product.

AIWA CO.,LTD.

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